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Terms	Documents
l1 and L2	0

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L3

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*DB=USPT; PLUR=YES; OP=ADJ*

<u>L3</u>	l1 and L2	0	<u>L3</u>
<u>L2</u>	(ak155 or ak 155)	3	<u>L2</u>
<u>L1</u>	(licr-2 or ilcr2)	5	<u>L1</u>

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 07:39:56 ON 25 SEP 2003)

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 07:40:10 ON 25 SEP 2003

L1	46 S (AK155)
L2	27 S (LICR-2 OR LICR2)
L3	1 S L1 AND L2
L4	12 S L1 AND (DISEASE? OR DISORDER? OR TREAT?)
L5	7 DUP REM L4 (5 DUPLICATES REMOVED)

=> d 3 ab

L5 ANSWER 3 OF 7 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AB It has been reported that the CD4+ T cell is a very important source of interleukin 10 (IL-10), while CD8+ cells produce low amounts. IL-10 exerts several immune stimulating, as well as inhibitory effects. There are at least five novel human IL-10 family-related molecules: IL-19, IL-20, IL-22, IL-24, and IL-26. Activated T cells produce IL-19, IL-22 and IL-26, while IL-24 is produced by activated monocytes and T-cells. IL-20 induces keratin proliferation and Stat-3 signal transduction pathway, while IL-22 induces acute-phase production by hepatocytes and neonatal lethality with skin abnormalities reminiscent of psoriatic lesions in humans. In addition, IL-22 mediates inflammation and binds class II cytokine receptor heterodimers IL-22 RA1/CRF2-4. This cytokine is also involved in immuno-regulatory responses. IL-26 (AK155) is a novel cytokine generated by memory cells and is involved in the transformed phenotype of human T cells after infection by herpes virus. All these new IL-10 subfamily member cytokines are strongly involved in immune regulation and inflammatory responses. .COPYRGHT. 2003 Elsevier Science B.V. All rights reserved.

4.1  
922  
244  
278

PI	US 2003073199	A1	20030417	US 2002-83720	20020228
	US 5989867	A	19991123	US 1997-934959	19970922
	US 2002054877	A1	20020509	US 1999-363993	19990729
PRAI	US 1996-27368P	P	19960923		
	US 1997-934959	A3	19970922		
	US 1999-363993	B2	19990729		
	US 2001-302176P	P	20010628		
	US 2002-345690P	P	20020103		

L5 ANSWER 3 OF 7 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
AN 2003333644 EMBASE  
TI IL-10 subfamily members: IL-19, IL-20, IL-22, IL-24 and IL-26.  
AU Conti P.; Kempuraj D.; Frydas S.; Kandere K.; Boucher W.; Letourneau R.;  
Madhappan B.; Sagimoto K.; Christodoulou S.; Theoharides T.C.  
CS P. Conti, Immunology Department, University of Chieti, School of Medicine,  
Via dei Vestini, 31, Chieti 661013, Italy. pconti@unich.it  
SO Immunology Letters, (8 Sep 2003) 88/3 (171-174).  
Refs: 34  
ISSN: 0165-2478 CODEN: IMLED6  
CY Netherlands  
DT Journal; Article  
FS 026 Immunology, Serology and Transplantation  
LA English  
SL English

L5 ANSWER 4 OF 7 MEDLINE on STN DUPLICATE 1  
AN 2002613478 MEDLINE  
DN 22257669 PubMed ID: 12370360  
TI IL-19 induces production of IL-6 and TNF-alpha and results in cell  
apoptosis through TNF-alpha.  
AU Liao Yuan-Chun; Liang Wei-Guang; Chen Feng-Wei; Hsu Ju-Hui; Yang  
Jiann-Jou; Chang Ming-Shi  
CS Graduate Institute of Biochemistry, College of Medicine, National Cheng  
Kung University, Tainan, Taiwan 70.  
SO JOURNAL OF IMMUNOLOGY, (2002 Oct 15) 169 (8) 4288-97.  
Journal code: 2985117R. ISSN: 0022-1767.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
OS GENBANK-AF453945; GENBANK-AF453946; GENBANK-AF454433  
EM 200211  
ED Entered STN: 20021010  
Last Updated on STN: 20021218  
Entered Medline: 20021127

L5 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:163866 BIOSIS  
DN PREV200200163866  
TI The interleukin-10 family of cytokines.  
AU Fickenscher, Helmut (1); Hoer, Simon; Kuepers, Heide (1); Knappe, Andrea;  
Wittmann, Sabine; Sticht, Heinrich  
CS (1) Abteilung Virologie, Hygiene-Institut, Ruprecht-Karls-Universitaet  
Heidelberg, Im Neuenheimer Feld 324, D-69120, Heidelberg:  
helmut\_fickenscher@med.uni-heidelberg.de Germany  
SO Trends in Immunology, (February, 2002) Vol. 23, No. 2, pp. 89-96.  
<http://journals.bmn.com/journals/list/latest?jcode=it>. print.  
ISSN: 1471-4906.  
DT Article  
LA English

L5 ANSWER 6 OF 7 MEDLINE on STN DUPLICATE 2  
AN 2001485743 MEDLINE  
DN 21419163 PubMed ID: 11528524  
TI Novel polymorphisms in the IL-10 related **AK155** gene (chromosome 12q15).  
AU Goris A; Marrosu M G; Vandenbroeck K  
CS Rega Institute, Catholic University Leuven, Minderbroedersstraat 10, B-3000 Leuven, Belgium.  
SO GENES AND IMMUNITY, (2001 Aug) 2 (5) 284-6.  
Journal code: 100953417. ISSN: 1466-4879.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200110  
ED Entered STN: 20010903  
Last Updated on STN: 20011008  
Entered Medline: 20011004

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 3  
AN 2000:217656 CAPLUS  
DN 133:16140  
TI Induction of a novel cellular homolog of interleukin-10, **AK155**, by transformation of T lymphocytes with herpesvirus saimiri  
AU Knappe, Andrea; Hor, Simon; Wittmann, Sabine; Fickenscher, Helmut  
CS Institut fur Klinische und Molekulare Virologie, Friedrich-Alexander-Universitat Erlangen-Nurnberg, Erlangen, D-91054, Germany  
SO Journal of Virology (2000), 74(8), 3881-3887  
CODEN: JOVIAM; ISSN: 0022-538X  
PB American Society for Microbiology  
DT Journal  
LA English  
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ab

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN  
AB This invention relates to cDNAs encoding **AK155** cytokine receptor subunits .alpha. and .beta. of human. Methods of screening for agents that modulate the effects of **AK155** cytokine on an **AK155** receptor are provided as well as methods of **treating disease** using agents that modulate the interactions between an **AK155** and an **AK155** receptor. In particular, **AK155** induces DNA binding of STAT3 to IFN.gamma.-activated sequences in Ba/F3 cell lines transfected with the .alpha.-subunit of **AK155** cytokine receptor.

=> d 2 ab

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Purified genes encoding a cytokine from a mammal, reagents related thereto including purified proteins, specific antibodies, and nucleic acids encoding this mol. are provided. The cytokine is **AK155** protein, an interleukin 10-related protein and peptide, capable of modulating activation or apoptosis of T cells. Methods of using said reagents in therapy of and diagnostic kits for immune **diseases** and inflammatory **diseases** are also provided.

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(FILE 'HOME' ENTERED AT 07:39:56 ON 25 SEP 2003)

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 07:40:10 ON 25 SEP 2003

L1 46 S (AK155)  
L2 27 S (LICR-2 OR LICR2)  
L3 1 S L1 AND L2

=> s l1 and (disease? or disorder? or treat?)  
L4 12 L1 AND (DISEASE? OR DISORDER? OR TREAT?)

=> dup rem l4  
PROCESSING COMPLETED FOR L4  
L5 7 DUP REM L4 (5 DUPLICATES REMOVED)

=> d 1-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:23009 CAPLUS  
DN 138:84575  
TI Cloning human **AK155** cytokine receptor .alpha. and .beta.  
subunits for **treatment** of immune **disorders**  
IN Finkenscher, Helmut; De Waal, Malefyt Rene; Nagalakshmi, Marehalli L.;  
Moore, Kevin  
PA Schering Corporation, USA  
SO PCT Int. Appl., 100 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003002717	A2	20030109	WO 2002-US20489	20020627
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003108958	A1	20030612	US 2002-186180	20020627
PRAI	US 2001-302176P	P	20010628		
	US 2002-345690P	P	20020103		

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:300540 CAPLUS  
DN 138:319704  
TI Mammalian cytokine **AK155** polypeptides, polynucleotides and  
antibodies for diagnosis and **treatment** of immune **disease**  
and inflammation  
IN De Waal, Malefyt Rene; Flickensher, Helmut; Fleckenstein, Bernhard;  
Knappe, Andrea  
PA USA  
SO U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S. Ser. No. 363,993.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2003:551528 CAPLUS  
 DN 139:99859  
 TI Isolation and cloning of new cytokine receptor **LICR-2**  
 IN Renauld, Jean-christophe; Fickensicher, Helmut; Dumoutier, Laure; Hor, Simon  
 PA Ludwig Institute for Cancer Research, USA  
 SO PCT Int. Appl., 41 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003057711	A2	20030717	WO 2002-US39231	20021209
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003158100	A1	20030821	US 2001-26106	20011221
PRAI	US 2001-26106	A	20011221		

AB The authors disclose the isolation and cloning of a new member of the class II cytokine receptor family, referred to as **LICR-2**. A ligand for this receptor has been identified as **AK155**. The protein sequence of interleukin-22 receptor was used for homol. searching, together with TBLASTN software, to screen public libraries of the human genome sequence. The anal. suggested that the homol. sequence was a gene with 7 exons, located on chromosome 1. The gene **LICR-2** was highly expressed in adrenal glands, kidney, heart, liver, testis, breast, skin, and colon tissue. Also disclosed is the manuf. of polyclonal antibodies to **LICR-2**. The antibodies could be used to det. the expression of **LICR-2**, esp. when the receptor is present on cell surfaces.

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